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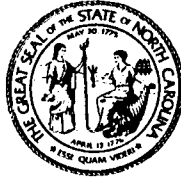
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State of North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management  
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

December 14, 1992

William L. Meyer  
Director

Mr. Stephen J. Mackmull  
Environmental Section  
Headquarters, XVIII Airborne Corps  
Fort Bragg, North Carolina 28307-5000

RE: Notification of Monitoring Well Sampling Episode at the Fort  
Bragg Landfills (Permit # 26-02)

Dear Mr. Mackmull,

Please inform this office of the date of your next monitoring well sampling episode at the Fort Bragg Sanitary Landfill and Demolition Landfill. The Solid Waste Section would like to split samples with your sampling contractor and also to inspect the two new monitoring wells. Our records indicate that a sampling episode is scheduled for January. If possible, please give at least two weeks notification prior to the event.

If you have any questions or comments, please call this office at (919) 733-0692.

Sincerely,

A handwritten signature in cursive script that reads "Larry Rose".

Larry Rose  
Hydrogeological Technician  
Solid Waste Section



*Central*

Ronald H. Levine, M.D. *M.P.H.*  
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES  
SOUTH CENTRAL REGIONAL OFFICE  
Wachovia Bank Bldg. - Suite 506  
225 Green Street  
Fayetteville, N.C. 28301  
(919) 486-1191

September 23, 1982



Commander  
XVIII Airborne Corps & Fort Bragg  
AFZA-EH-EE  
Fort Bragg, North Carolina 28307

Dear Commander:

On June 30, 1982, and September 21, 1982, Terry Dover and I inspected Fort Bragg landfill, Fort Bragg, North Carolina. This letter is to notify you that the following violations of the North Carolina "Solid Waste Management Rules" were recorded on these two consecutive inspections:

On-site erosion (.0505(5))  
Seeding of completed area (.0505(5))

These violations should be corrected within 30 days. On or about October 21, 1982, the site will be reinspected; and any remaining or new violations shall be noted. By February 1, 1983, grease trap sludges shall be disposed of outside the landfill site.

Any violations of the "Solid Waste Management Rules" are subject to administrative penalties or injunctive action pursuant to General Statute 130-166.21E.

If I or this office can be of service, please contact me.

Respectfully,

*Richard L. Gay*

Richard L. Gay  
District Sanitarian  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

RLG/ps

cc: Mr. Terry Dover



REPLY TO  
ATTENTION OF:

**DEPARTMENT OF THE ARMY**  
HEADQUARTERS, XVIII AIRBORNE CORPS AND FORT BRAGG  
FORT BRAGG, NORTH CAROLINA 28307-5000

August 26, 1992

26-02 Cumberland Co  
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corresp.  
RECEIVED

SEP 1



SOLID WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

Directorate of Engineering  
and Housing

SUBJECT: Update on How Fort Bragg Proposes to Conduct Future  
Sanitary Landfill Operation

Mr. Terry Dover  
North Carolina Department of Environment,  
Health, and Natural Resources  
Wachovia Building, Suite 601  
225 Green Street  
Fayetteville, North Carolina 28301-5095

Dear Mr. Dover:

Fort Bragg Sanitary Landfill (26-02) was permitted by the state in 1981 and is now filling within cell number 9, centered 1,070 feet north of the first cell's center line. By restricting disposal to on-post refuse and opening a demolition landfill, it reduces the rate of fill to a cell every four years instead of one cell per year.


Fort Bragg is considering off-post disposal proposals with companies to include VEDCO/BCH, BFI, or Addington. Fort Bragg intends to get out of the landfill business once regional alternatives become available.

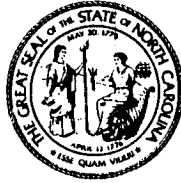
We will apply for a permit for a vertical expansion over the present landfill. Additionally, Fort Bragg is considering constructing and operating a material recycling facility to meet the state's 25 percent reduction goal.

Fort Bragg is emphasizing an integrated waste management concept. We strive to reduce disposal waste by source reduction, intensive recycling, and composting.

If you have any questions, please contact Mr. Stephen J. Mackmull at (919) 396-3341/3372.

Sincerely,

  
R. M. Danielson  
Colonel, U.S. Army  
Director of Engineering  
and Housing



WQ  
26-02  
Cumberland Co

State of North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management  
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

William L. Meyer  
Director

April 7, 1992

Mr. Steve Mackmull  
Environmental Section  
18TH Airborne Corp  
Fort Bragg, N.C. 28307

RE: Detection Monitoring Wells at the Fort Bragg Landfills  
(Permit # 26-02)

Dear Mr. Mackmull,

Thank you for the assistance from your office that I received during my recent site visit to both of the Fort Bragg landfills.

As we discussed, the Solid Waste Section is requesting the replacement of monitoring well # 4, the upgradient or background well, at the sanitary landfill. This well has a history of being dry at the annual sampling episode and was considered to be dry during my inspection. It is needed in order to compare sampling results between upgradient and downgradient wells. In addition, I suggested that monitoring well # 1 at the demolition landfill be replaced in a location more upgradient and farther from the fill area. The well is close enough to the fill debris to give some cause for concern with the monitoring results if this well is to be considered upgradient. It was my understanding during our conversation that you are to have both of these wells replaced; therefore, any monitoring well replaced should be installed according to the following conditions:

1. The wells are to be placed within the permitted boundaries of the facility in an area free of garbage, refuse, or debris, and an area not subject to flooding.
2. The wells should be drilled to a depth (and likewise, the screen placed at a vertical location) that will insure that future drought conditions, which may lower the water table, will not render the wells ineffective. The top of the well screen should be placed just above the level of the seasonal high water table.
3. Each well is to be constructed according to the specifications in the "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities" as illustrated by the "Typical Monitoring Well Schematic" that is enclosed. Two inch well casings are preferred.

4. The screen should be a maximum of 15 feet in length. The sand pack should extend no more than 2 feet above the screen. A bentonite seal of 1.0 foot should be installed above the screened interval.
5. Well construction permits must be obtained from the Division of Environmental Management, Groundwater Section.
6. Wells must be thoroughly developed after construction in order to reduce the suspended solids, flush out the well and re-establish equilibrium in the aquifer.

Within 15 days of completion of well installation, a complete and accurate Well Completion Record (DHS 3342) and Typical Schematic should be submitted to this office. In addition, please provide a summary of the hydrogeological data accumulated from the boring operation. Include all boring logs and other pertinent subsurface information.

Monitoring wells that are replaced and are no longer used should be permanently abandoned according to the procedures cited in NCAC Title 15 Subchapter 2C Section .0100, with exception that no disinfection is to be done. If they are not properly abandoned, they should be capped and secured with a lock at all times.

As for all of your existing wells, I would iterate the need to cap each well casing as soon as possible.

If you have any questions or comments, please call this office at (919) 733-0692.

Sincerely,



Larry Rose  
Hydrogeological Technician  
Solid Waste Section

cc: Terry Dover  
Isaiah Guyton

Enclosures



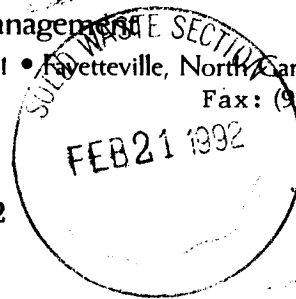
State of North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management

South Central Regional Office • 225 Green Street, Suite 601 • Fayetteville, North Carolina 28301  
Telephone: (919) 486-1191 Fax: (919) 486-1791

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

William L. Meyer  
Director

February 20, 1992



Colonel K.W. Crissman  
Director of Engineering and Housing  
AFZA-DE-DV  
Ft. Bragg, N.C. 28307-5000

Dear Colonel Crissman:

Your letter dated February 7, 1992 requesting concurrence and requirements to relocate contractors storage yards on completed portions of the Ft. Bragg Sanitary Landfill Permit #26-02 has been reviewed.

Our office must take a very negative position on this matter. Activities which you have described could increase water infiltration and cause subsidence to the landfill. This would create a greater potential for ground water contamination and methane gas formation. The integrity of closed landfills must be maintained.

The U.S. Environmental Protection Agency has taken a similar position in the recently published October 9, 1991 Federal Register, 40 CFR Parts 257 and 258, Solid Waste Disposal Criteria; Final Rule. These rules require post closure care of landfills for at least 30 years after closure.

Additionally, these same rules will require landfills which operate after October 9, 1993 to be lined with a composite liner system and leachate collection system. The Ft. Bragg Landfill has two choices to be in compliance by this date; vertically expand on top of existing waste or move into a fully lined facility. In either case, a major permit revision is required in accordance with Section .0201 of the N.C. Solid Waste Management Rules.

As we have repeatedly stated to members of your staff, we will be more than happy to meet with you to fully discuss these matters.

Sincerely,

Terry F. Dover  
Eastern Area Supervisor  
Solid Waste Section

TFD/wlf  
Enclosures  
cc: Jim Coffey  
Ikke Guyton  
Central Files 28-02 C